# NEW YORK TRIBUNE, SUNDAY, FEBRUARY 27, 1921 A Sturdy Stove for the Kitchenette That Is Equal to Any Task

# With an Oven, a Broiler and Two colator, electric iron or toaster can from strips, giving a light and strong top element was turned to low, and on the large plate element, boiled in the temperature dropped slowly, be- 14 minutes starting cold, and a sec-Surface Plates, What Would Mere Legs Add to This Stove?

being 22 inches high with the stove of the two oven elements and the puts on no frills as to appear.

Perfect control is obtained, as let, and the large left-hand surface sible; the door has a truncated cooking temperature. in the way of enamel and nickel the two burners (8 and 5 inches, re- element alone takes double that on mings, but is not a compromise; spectively) and the oven and broiler, high (i. e., 1,140 watts), a total of

## An Automatic Electric Water Heater

YERY hot water in small quan- along the two feet of galvanized tities, on demand, day or half-inch pipe between the discharge night, winter or summer, by faucet and the outlet tap on the grely turning the spigot—that is heater and from the lower surface but the Sepco heater has to offer. of the heater shell as well. heater may have a heating ele- A second test duplicated these reest of 660 watts (lamp socket) or sults with the exception that the at 1,000 watts, but in the latter water was not drawn off and a recspecial installation must be ord was kept of the heat maintained.

With this installation, and keep- trol operated every ten minutes, the the current on permanently, you current being kept on for 1 minute always have ready six quarts of and 20 seconds each time, drawing ter at a temperature of about 160 | 950 watts. Therefore, in an hour the ees (though there is on the current would be in use about eight one a readily adjusted screw for minutes, at a cost of 11/4 cents, with intaining the temperature at any 10-cent electricity. That is, this sired point) at a minimum ex- would be the maintenance charge Me. This is too hot for most pur- when the water was not being used. ses and, therefore, you may add The cost of heating each six quarts me to five quarts of tap water to of water to 160 degrees F. would be fince this to usable temperature, about 4 cents. Care should be taken making about 2.5 gallons of in using such a device that the water rm water constantly on hand, or is not wasted and is not allowed to quarts of scalding water (not run hot down the drain unmixed

#### Heating Tests

In the actual tests made in the stitute the heater was connected Construction and Appearance with the water supply line having dy pounds pressure, discharging heater, Type S, model tested, is 7 ough the faucet into the kitchen inches in diameter and 24 inches The inlet water temperature high, having a black japanned sheet ns 77 degrees F. The heater, as steel casing. Five inches above the ceived from the manufacturer, is half-inch cold water inlet near the ways supposed to deliver water at bottom and at the side of the heater. to degrees, but the adjustment the automatic temperature control w on top of the gauge can be gauge is mounted. This is operated ed to the right or left to get by the expansion and contraction of

In twenty-seven minutes the auto- izontal tube extending into the the temperature control operated heater and extending four inches turned off the current, the gauge beyond the shell covering, so that a ile registering 34. Immediately floor space 7 by 11 inches is needed. six quarts of water were drawn The electrical terminals in the and averaged 155 degrees, with a base of the heater are mounted on mum temperature of 195 and a a rigid bar and connect with either mum of 115 degrees F. On lamp socket or baseboard outlet, six bring off 2.5 quarts more, even feet of flexible asbestos cord and a was found to average 102 de- separable, parallel-bladed plug benes, ranging from 115 to 80 de- ing furnished. Do not forget, how-

### Costs and Efficiency

This heating element, calling for 000 watts, averaged 953 during , and the thermal efficiency was per cent, the water receiving 1127 B. T. U. out of the 1463 suppled. Some uncomputed heat losses adoubtedly occur by radiation

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HIS is a sturdy, hard-working, top 6% inches high, and covering small right hand plate require the which is made in one piece to insure to low and only 235 degrees was exactly the right size.

mmings, but is not a compromise; spectively) and the oven and broller, over 3,000 watts when all parts are ing pressure clamp to close it tightly. (it takes it about ten minutes to water showed an efficiency of 58 per its own legs, and takes up a bench ter opening shown in the photograph to operate all parts at once. only 36 by 16 inches, the oven is a convenient plug to which per-

On an average, the automatic con-

It is much more usable as well as

more economical when drawn into

the basin and mixed with cold water.

As to looks and construction, the

a volatile liquid, contained in a hor-

ever, that for the 1,000-watt element,

such as is reported on here, an elec-

tion, and can neither corrode nor

The whole device is compact and sightly, and may be finished in white

The 660-watt lamp socket device

is built to give the same service in

the smaller models-of course, at

Obviously, in kitchen and bath

(especially in summer, when the

heating plant is not in use), in hos-

pitals, in doctors' and dentists' of-

fices, in commercial offices, where

the lavatories have no hot water,

such an attachment is of the greatest

The Sepco Automatic Electric

Made by the Steam Electric

Products Company, Cleveland, Ohio.

Water Heater, Type S.

prevents heat radiation.

bathrooms and offices.

greater expense.

convenience.

With this amount of heat, perfect control, a broiler and an oven, and only 90 pounds of weight, with table or shelf installation, it is seen that this is an ideal small family stove for limited kitchen space. While the insulation of the oven

of one large range examined), it is possible to roast satisfactorily on medium heat, after the desired oven temperature had been obtained by the high, but low heat will not keep up a baking temperature.

Such points are absolutely essen-

### Construction Details

This is a device standing halfway between the lamp socket devices and a large electric range. It must be specially wired and installed as a

part of the heating system, as each

construction, as effective as in a heat to the sides of the oven; a broiler and a baking rack are fur- Readings on Door Indicator and nished and may be set at any one of Oven Thermoneter, Both Units On four heights on ridges spaced 21/4 at High inches apart.

#### Oven Temperatures

The two radiant elements (each tial to the economic operation of up quite quickly, a hot oven of 500 electric cookers of any sort. Using degrees being obtained in fourteen the retained heat, cooking with the minutes, quicker time than in some heat off, or on low or medium, as large ranges. When the two much as possible, cuts the bill for switches were turned to medium the temperature continued to rise, and 580 degrees was reached (theo-The stove is made of blue polished retically 650 could be obtained under elements showed that a quart of pid to cook up to the last minute on some special piece of work espe-

made of coiled heating wire set in coming constant at 542 degrees, ond test made on the hot element grooves in a baked white clay mate- With only the bottom element on at took only 9 minutes. The pan was rial, much like porcelain. Under-medium a final temperature of 340 not quite so large as the element, neath is a steel plate, separated 0.5 degrees was obtained (a medium which means always that some heat inch by washers, to which the ter- oven), suitable for finishing cakes, is wasted and so a slightly increased minal posts of the unit are fastened. breads and meats after the first efficiency might be obtained. The The oven is all metal with a lining higher temperatures have been used. time on the latter test was cut from of special alloy to prevent rusting, At this point the switch was turned 9 to 7.5 minutes by using a pan that it is as nearly airtight as pos- maintained, which is too low for a

The sides, top and bottom are insu- catch up with a constant temperalated with two inches of rock wool. ture, once attained), is a help in starting with the cold unit and 77 Both of the oven heating elements showing what the temperature tenare of the radiating type also. The dencies of the oven are. An oven boiled (in 27 minutes), the increase leads come in through the rear walls thermometer used in connection being due to the heat stored in the in porcelain bushings, which give with the indicator would soon show good insulation and will stand the you just how to use it to the best high temperatures obtained. There advantage, and the following table is not, of course, with this sort of baking and roasting, to spread the cator readings and times observed in is a heat distributor, to be used in shows the true temperatures, indithe Institute laboratory:

Time Min.	Oven tem- perature deg. F.	Indicator Reading Rising Constant		Cost
0 2 4 6	68	0.0	0.0	0.00
2	125	0.0	1.0	0.42
4	180	0.0	2.6	0.84
6	246	1.7	4.4	1.26
8	320	2.7	6.3	1.68
10	384	3.8	7.7	2.10
12	440	5.0	8.7	2.52
14	490	6.2	9.6	2.94
181/4	562	8.2	10.3	3.90
26	620	10.0	10.7	5.46
,	T1 .	0 0	700 000	

sheet steel fastened with light angle these conditions). At this point the water in a covered aluminum pan, increasing heat and leave the stored cially well. They are made of high-

NOTE that the oven, the broiler and the large and small surface ele-

there is no excuse for wasting electricity after you are well acquainted

with the stove's habits. In the center is a convenient opening where

a percolator or iron or toaster can be plugged in

ments each has its own three-heat switch, easy to turn, so that

This is an important point for the pyramid form to fit closely into the The indicator, while not reliable open elements for electrical cooking. housekeeper to remember when using cent (32 minutes boiling time) when

### Summing Up

These are the points that the housekeeper needs to experiment on with her electric stove. Both costs bred" stove. The three heats are One should use them. As to expense of operation, observe that the 8-inch But on medium these costs are al- for women!" most cut in half, and at low they are about one-third. The stove Tests made on the open surface stores heat, and it is of course stulike tools in a chest, to perform

# Ninety Pounds and Asking Only for Table Space

food is removed.

for kitchenette space offers is worth this type of table range. a little money to maintain and a The Rutenber Kitchenette Rang little trouble in getting acquainted, Model D-90. and it will cost you both, but it has | Made by the Rutenber Electric

heat to go off into the air after the wiring permits all four burners and Such clearliness, convenience once, so you are fully equipped, not and compactness as this real stove compromising, when you install

full value to give in return The Company, Marion, Ind.

### A Domesticated Set of Special Knives

ID you ever see a woman par- | cooky turner, while the smaller one ing potatoes with a long is useful for scraping powls, etc. and cooking results depend on the blade being too long and fitting with rounded corners, and is much correct handling of this "high reither the hand nor the job, edge less flexible than the smaller spatdull and end blunt and incapable of ula with the rounded end. put there because they are needed. going after the "eyes" or defects? We have, and the twelve-year-old boy of the family probably had a knife in his pocket that was a wonplate costs 11.4 cents an hour on der and included a young kit of high, the small plate 6.4 and the tools as well as two sharp blades! two oven burners 6.3 cents each. As we have said before, "Tools This blade being long and thin is

Here are ten pieces, knives and cake, cold meats, etc. forks and spatulas, each one fitted. grade, polished tool steel, set in The blade extends down into the is held by a counter-sunk, roundheaded brad, driven into the handle from the side and through a hole in the steel. This insures permanent tightness, and hot water is not to be

Beginning with the smallest in this family of ten we find on the left the small paring knife, with a twoinch blade and a 3%-inch handle which is double-tapered, well balanced and fits the hand. The blade is curved on the back, and has also a slight forward curve of the point. A perfect little knife this for all peeling and paring operations. The next in size is the same shape, but has a three-inch blade and is slightly more flexible, to fit it for cutting and slicing large vegetables, as well

The two forks are each two- Company, Southbridge, Mass.

case-knife, both handle and The large blade is cut off square, shown, suitable for carving meats,

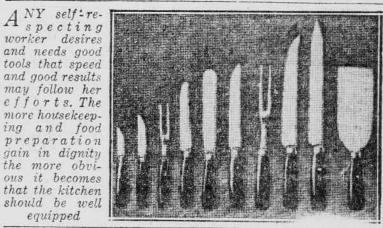
The next to the largest knife has a stiff, eight-inch blade, while the longest 8%-inch blade is quite flexible and curves uniformly from front and back to a sharp point. especially liked for slicing bread,

Of the two smaller knives, one on either side of the small standard spatula, No. 4 from the end is known as a French pattern table knife. It has a 4%-inch blade, stiff tough, ebonized wooden handles and of uniform thickness, with a handle from 14 to 1% inches, and double curvature, while the cutting rounded point. The back has a edge curves uniformly. This is a general utility knife or for table use in the kitchen. The remaining knife is rather like

a small carving knife, having a stiff 5%-inch blade, and curving backward on the cutting edge to a sharp point on the back of the knife. This makes a good mate for the larger If there is anything going on in

your kitchen that could not be handled by this set of knives and forks we would be glad to know about it. The idea has been to cover all special uses without duplicating pieces unnecessarily. "Domestic Science" Kitchen Set

(Dexter Brand). Made by the Harrington Cutlery





equipped foods that were rather diffi- units were put on for 26 minutes, represents the thorough cooking utes would have been sufficient, giv- strong points, which will spear a hot cult to cook, pork chops and when the indicator in the front door needed for pork, and could easily ing 500 degrees), for eight minutes potato or a biscuit without damagroast pork, baked potatoes and read "9" (markings 1 to 12 for gen- have been reduced even for that by after putting in the meat the heat ing its appearance. The smaller eral guidance). At the end of that fifteen minutes, making the cost was kept on at high. Then the top one is eight inches long, equally element was turned off and the bot- divided between handle and steel, sauted, were all prepared satisfac- degrees F., more than is needed ow- Quartered apples dipped in sugar tom one turned to low for fifteen while the larger one, suitable for

.The larger spatula is 21/2 inches wide and six inches long, making it useful as a pancake, egg; fish or

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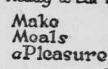
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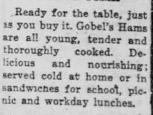
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#### torily. Some of the details may be ing to the "lag" on the part of the and cinnamon were placed on the minutes. This proved to be a misof interest to those beginning to oven indicator. This scale reading rack with the chops during the take-higher heat was needed, as same construction but ten inches cook with electricity, for there is runs behind the real oven temperativenty minutes of cooking at low the indicator went down to 5 (being long, with a handle 4% inches. much to learn about it in order to tures, about two or three divisions. heat and no heat, and were very de- numbered 1 to 12). It was turned get the best results at the least cost. reading 8 when it should read 10 at licious, much better than when to high again for five minutes and ard, with a six-inch blade and a 3%-It took 20 minutes to boil 1.5 560 degrees and only "catching up" fried. The upper slide brought the then to medium for forty minutes. inch handle. The blade is one inch

Cooking Experiments to Show Cost and Control

quarts of water for the parsnips after the temperature has been meat rather too close to the ele-(pan here slightly small for ele- steady for about ten minutes. ment) and 10 minutes more a high The housekeeper will be misled next ridge cooking went on well. 10-cent rate. trician will be needed to make the heat after they were put into the just as we were into heating her Toast was also very successfully Potatoes were cooked at the table. The metal within 1% inches necessary connections, though the water; the heat was then turned to oven too hot unless she allows for made with five minutes' preheating same time, being done in about one of the handle is heaver so as to trouble will be very slight in most low for 20 minutes and cooking the lagging indicator. A reading of of the oven with both units and six hour. They were soft and the skins make it stiff and durable at that cases, as a ten-ampere fuse will continued with heat off entirely for about 6, attainable in fourteen minutes with the top unit on high were dry and crisp. In the light of point.

with a baked, plastic insulation. The cost for heat, 9 cents

apples, and parsnips boiled and time the temperature was about 600 nearer 4 cents

the center of the heater, is made of five minutes on full heat, and the oven. Then, however, the lower from the broiler was used and the ing at low heat, and the whole opgalvanized, seamless steel tubing switch turned to medium for about element was turned off and the upand the outside surface is covered six minutes for each panful. Total per broiler kept on at high for ten browning.

ment, the fat caught fire, but on the and the cost about 9 cents at the handle vertical one inch of the the last five minutes. In sautéing minutes, would have been sufficient, to do four slices of bread both experience it is seen that the oven The water container, comprising these an iron spider was prelicated giving around 500 degrees to the sides. The top of the second slide insulation will not permit of cook-

minutes, followed by ten minutes A roast of pork (2.5 pounds) and heat been turned to medium for the resistance wire heating element is In broiling the pork chops (cooked of low heat and ten minutes with baked potatoes were prepared to- greater part of the time and fin-

# burn out. An outer layer of insulation completes the construction and An Introduction: Mr. and Mrs. New Reader, Shake Hands With The Institute

enamel or nickel, if preferred, for

and the electric washing machines formation.

The two engineers (Mr. Richard cal analysis.

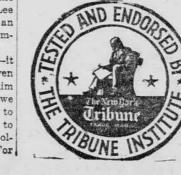
is built to give the same service in a slightly longer time. And there cussed on this page are tested before I. Sparkman, Columbia University) the reports and certificates issued are always ready to give information are also models to be attached to we certify them to you. All new puts them through their paces and to the manufacturer, with our critiare also models to be attached to and interesting apparatus for the the results are recorded. The stove cisms and suggestions, if any, and and the filed reports thereon. have not been individually tested, but operate on the same principle as kitchen, from the smallest to the but operate on the same principle as

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